PROJECT DEVELOPMENT PHASE SPRINT3

Date	24 October 2022
Team ID	PNT2022TMID17788
Project Name	Smart Lender - Applicant Credibility
	Prediction for Loan Approval
Maximum Marks	20 Marks

APPLICATION DEVELOPMENT

```
from flask import Flask, request, render_template, url_for
import numpy as np
import pickle
import requests
app = Flask(__name__)
@app.route('/')
def home():
     return render_template('Home.html',title = 'home',val = 'namaste')
@app.route('/detailPage')
def detail():
     return render_template('Details.html')
@app.route('/showResult',methods = ['POST'])
     gender, married, depend, education, self\_emp, applicant\_income, co\_income, loan\_amount, loan\_term, credit\_history, property\_area = [x \ for \ x \ income, loan\_amount, loan\_term, credit\_history, property\_area = [x \ for \ x \ income, loan\_amount, loan\_term, credit\_history, property\_area = [x \ for \ x \ income, loan\_amount, loan\_term, credit\_history, property\_area = [x \ for \ x \ income, loan\_amount, loan\_term, credit\_history, property\_area = [x \ for \ x \ income, loan\_amount, loan\_term, credit\_history, property\_area = [x \ for \ x \ income, loan\_amount, loan\_term, credit\_history, property\_area = [x \ for \ x \ income, loan\_amount, loan\_term, credit\_history, property\_area = [x \ for \ x \ income, loan\_amount, loan\_term, credit\_history, property\_area = [x \ for \ x \ income, loan\_amount, loan\_term, credit\_history, property\_area = [x \ for \ x \ income, loan\_amount, loan\_term, credit\_history, property\_area = [x \ for \ x \ income, loan\_amount, loan\_term, credit\_history, property\_area = [x \ for \ x \ income, loan\_amount, loan\_term, credit\_history, property\_area = [x \ for \ x \ income, loan\_amount, loan\_term, credit\_history, property\_area = [x \ for \ x \ income, loan\_amount, loan\_term, credit\_history, property\_area = [x \ for \ x \ income, loan\_amount, loan\_term, credit\_history, loan\_term, cred
request.form.values()]
     print("details",gender,married,depend,education,self_emp,applicant_income,co_income,loan_amount,loan_term,credit_history,property_area)
     if gender == 'male':
           gender=1
     else:
           gender = 0
     if married == 'yes':
           married = 1
     else:
           married = 0
     if depend == '3+':
            depend = 3
     if\ education == \ 'Graduate' :
           education = 0
           education = 1
     if self_emp == 'yes':
           self_emp = 1
     else:
            self\_emp = 0
     applicant_income = int(applicant_income)
     #applicant_income = np.log(applicant_income)
     loan_amount = int(loan_amount)
     \#loan\_amount = np.log(loan\_amount)
     if property_area == 'Urban':
           property_area = 2
     elif\ property\_area == 'Rural':
           property\_area = 0
     else:
     features = [[gender,married,depend,education,self_emp,applicant_income,co_income,loan_amount,loan_term,credit_history,property_area]]
     print(features)
```

```
# NOTE: you must manually set API_KEY below using information retrieved from your IBM Cloud account.
     API_KEY = "a1Ri3V6f6RR0LyqdgU7f1GIc0jfJaBeZ_Cqq34bQN4v6"
     token\_response = requests.post("https://iam.cloud.ibm.com/identity/token", \ data = \{ "apikey" : \ apikey" : \ a
     API\_KEY, "grant\_type": 'urn:ibm:params:oauth:grant-type:apikey'\})
     mltoken = token_response.json()["access_token"]
     header = {'Content-Type': 'application/json', 'Authorization': 'Bearer ' + mltoken}
# NOTE: manually define and pass the array(s) of values to be scored in the next line
payload_scoring = {"input_data": [{"field": [["gender","married","depend","education","self_emp","applicant_income","co_income","loan_amount","loan_term","credit_history","property_area
"]], "values": features}]}
     ab27eb9a0944/predictions?version=2022-11-15', json=payload_scoring,
     headers={'Authorization': 'Bearer ' + mltoken})
     print("Scoring response")
     pred=response_scoring.json()
     prediction=pred['predictions'][0]['values'][0][0]
     print(prediction)
     if(prediction == 0\;);\\
           return render_template('Fail.html')
     else:
           return\ render\_template('Success.html')
if __name__=='__main___':
    app.run()
```